

# INTERNATIONAL SEARCH REPORT

International Application No  
/GB2004/003847

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K11/02 C07K7/64 A61K38/15

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, BIOSIS, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/033012 A (LOPEZ LAZARO LUIS ; TRIGO JOSE MANUEL (ES); JIMENO JOSE (ES); PAZ-ARES) 24 April 2003 (2003-04-24) cited in the application page 3 - page 4 page 7 - page 17 page 19 - page 20	1-14
X	WO 01/58934 A (JIMENEZ JOSE CARLOS ; RODRIGUES IGNACIO (ES); GIRALT ERNEST (ES); LOPE) 16 August 2001 (2001-08-16) cited in the application page 9 - page 12 ----- -/--	1-5,7,8, 10-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

26 January 2005

Date of mailing of the international search report

14/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Meacock, S

# INTERNATIONAL SEARCH REPORT

International Application No  
/GB2004/003847

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HAMANN M T ET AL: "Kahalalides: bioactive peptides from a marine mollusk Elysia rufescens and its algal diet Bryopsis sp" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY. EASTON, US, vol. 61, no. 19, 1996, pages 6594-6600, XP002125310 ISSN: 0022-3263 cited in the application page 6595	1-8, 10-12
P,X	WO 2004/035613 A (AVILES MARIN PABLO MANUEL ; CUEVAS MARCHANTE MARIA DEL CAR (ES); PHARM) 29 Apr11 2004 (2004-04-29) page 4	1-3, 11-14
A	LÓPEZ-MACIÀ A ET AL: "Synthesis and structure determination of kahalalide F (1,2)." JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 21 NOV 2001, vol. 123, no. 46, 21 November 2001 (2001-11-21), pages 11398-11401, XP002313084 ISSN: 0002-7863 page 11399	

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/003847

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14 (all partially)

A compound based on the structure of kahalalide F wherein an amino acid in the exocyclic part is different from that in kahalalide F.

---

2. claims: 1-14 (all partially)

A compound based on the structure of kahalalide F wherein an amino acid in the cyclic part is different from that in kahalalide F.

---

3. claims: 1-14 (all partially)

A compound based on the structure of kahalalide F wherein the side chain is changed, for example, the methylhexanoyl group has been substituted by another carboxyl group or has been removed.

---

# INTERNATIONAL SEARCH REPORT

International Application No  
/GB2004/003847

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03033012	A	24-04-2003	AU 1074902 A	15-05-2002
			BR 0114912 A	14-10-2003
			CA 2425627 A1	10-05-2002
			CA 2462639 A1	24-04-2003
			EP 1330258 A2	30-07-2003
			EP 1435990 A1	14-07-2004
			WO 03033012 A1	24-04-2003
			JP 2004512370 T	22-04-2004
			NO 20031860 A	30-06-2003
			PL 360848 A1	20-09-2004
			SK 5022003 A3	02-12-2003
			US 2004067895 A1	08-04-2004
			CZ 20031211 A3	17-09-2003
			WO 0236145 A2	10-05-2002
WO 0158934	A	16-08-2001	AU 3208601 A	20-08-2001
			BG 107020 A	30-05-2003
			BR 0108213 A	05-03-2003
			CA 2399187 A1	16-08-2001
			CN 1422278 T	04-06-2003
			CZ 20022740 A3	15-01-2003
			EP 1254162 A2	06-11-2002
			WO 0158934 A2	16-08-2001
			HU 0301817 A2	29-09-2003
			JP 2003522198 T	22-07-2003
			NO 20023749 A	07-10-2002
			PL 356800 A1	12-07-2004
			SK 11242002 A3	03-06-2003
			US 2004214755 A1	28-10-2004
WO 2004035613	A	29-04-2004	CA 2462639 A1	24-04-2003
			EP 1435990 A1	14-07-2004
			WO 2004035613 A2	29-04-2004
			WO 2004075910 A1	10-09-2004